

QUESTIONS AND ANSWERS

PLEASE REFER TO THE GENERAL FAQs SECTION OF ARPA-E'S WEBSITE ([HTTP://ARPA-E.ENERGY.GOV/?Q=FAQ/GENERAL-QUESTIONS](http://arpa-e.energy.gov/?q=faq/general-questions)) FOR ANSWERS TO MANY GENERAL QUESTIONS ABOUT ARPA-E AND ARPA-E'S FUNDING OPPORTUNITY ANNOUNCEMENTS. ADDITIONAL QUESTIONS SPECIFIC TO THIS FOA ONLY ARE INCLUDED BELOW. PLEASE REVIEW ALL EXISTING GENERAL FAQs AND FOA-SPECIFIC QUESTIONS BEFORE SUBMITTING NEW QUESTIONS TO ARPA-E.

I. Full Application Questions:

Q1. COULD YOU PLEASE PROVIDE CLARIFICATION IF PRE-TRAILS AWARDS WILL ONLY BE GRANTS, OR WHETHER SUCH AWARDS MAY ALSO TAKE THE FORM OF ARPA-E FUNDING AGREEMENTS REFERENCED AT PAGES 12-13 OF THE SOLICITATION, INCLUDING COOPERATIVE AGREEMENTS AND TECHNOLOGY INVESTMENT AGREEMENTS UNDER ARPA-E'S "OTHER TRANSACTIONS" AUTHORITY.

ANSWER: The intention at this point is for ARPA-E to issue one, multiple, or no reimbursable grants under this FOA. ARPA-E does however reserve the right to award grants, cooperative agreements, and/or OTA's.

Q2. A FEW QUESTIONS CONCERNING THE PRE-TRAILS EXPLORATORY TOPIC FOA:

1. **ARE PREDICTIVE ALGORITHMS THAT DO NOT RELY ON THE NEED OF NEWLY DEVELOPED SENSORS (I.E., WATER VAPOR SENSOR) PREFERRED?**
2. **TECHNICAL PERFORMANCE TARGETS B. STATES:
- "FINAL DEMONSTRATION OF THE AIC PREDICTIVE MODEL TO ACHIEVE A MINIMUM OF FIVE (5) TRUE POSITIVE PREDICTIONS..."
WHAT ARE CONSIDERED 5 DISTINCT PREDICTION EVENTS? WHO/HOW WILL THESE PREDICTION EVENTS BE IDENTIFIED PRE-DEMONSTRATION?**
3. **WITHOUT AIRCRAFT OR ENGINE OEM PARTNERSHIP, IT MAY BE DIFFICULT TO ACQUIRE POTENTIALLY VALUABLE PROPRIETARY AIRCRAFT/ENGINE OPERATION AND PERFORMANCE DATA TO HELP BUILD THE PREDICTIVE MODEL. WILL ARPA-E ASSIST IN ACQUIRING SOME OF THESE DATA?**

ANSWER:

1. The program has a single target related to model performance as described in the FOA, there is no bias to whether existing or new sensors are used to achieve this target.
2. A flight can be considered either a validation or a prediction opportunity. It will be up to teams to identify the necessary resources and capabilities to provide reasonable validation of their predictions. No guidance will be given by ARPA-E on flight sources, whether from commercially available data or piloted specifically for the project.



3. ARPA-E provides a teaming list to assist in formation of relevant teams. It is the responsibility of the proposing team to address any deficiencies in their resource plan prior to award of funds under this FOA.